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## AMENDMENTS TO THE CLAIMS

Please amend Claims 1 and 15 as follows, without prejudice or disclaimer to continued examination on the merits:

 (Currently Amended): A computer implemented mechanism for dynamically constructing a network element management system, comprising:

executing a core application, the core application comprising NE elementindependent Version Independent (VINI) functionality that can be invoked to interact with any network element, wherein NE element-independent Version Independent functionality comprises the core application containing no code specific with any network element;

receiving an indication of a particular network element to be managed;

obtaining a description of the particular network element, which specifies one or more characteristics of the particular network element;

accessing, based upon the description, a set of one or more element-dependent modules, the set of element-dependent modules comprising functionality for invoking one or more management services provided by the particular network element; and

dynamically incorporating at least a portion of the set of element-dependent modules with the core application to derive a management system capable of managing the particular network element; and

managing the particular network element with the management system with the set of element-dependent modules.

2. (Original): The method of claim 1, wherein the set of element-dependent modules comprises a first proxy corresponding to a first management service provided by the particular network element, the first proxy comprising functionality for converting a generic service invocation from the core application into a specific invocation of the first management service.

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 (Original): The method of claim 2, wherein the first proxy implements a common interface implemented by all proxies, and wherein the core application interacts with the first proxy via the common interface.

 (Previously Presented): The method of claim 3, wherein dynamically incorporating the set of element-dependent modules comprises:

instantiating the first proxy to give rise to a first proxy instance; and incorporating the first proxy instance with the core application.

- 5. (Original): The method of claim 3, wherein the first proxy manages one or more managed object classes, and wherein the set of element-dependent modules further comprises the one or more managed object classes.
- (Original): The method of claim 5, wherein dynamically incorporating the set of element-dependent modules comprises:

loading the one or more managed object classes.

- 7. (Original): The method of claim 5, wherein each managed object class implements a second common interface implemented by all managed object classes.
- 8. (Original): The method of claim 7, where each managed object class comprises functionality for converting a raw data type used by the first management service into a generic data type used by the core application.
- 9. (Original): The method of claim 7, where each managed object class comprises functionality for converting a generic data type used by the core application into a raw data type used by the first management service.
- 10. (Original): The method of claim 1, wherein the set of element-dependent modules comprises a service descriptor which provides a description of at least one particular management service provided by the particular network element, the service

descriptor specifying one or more managed object classes managed by the particular management service.

- 11. (Original): The method of claim 10, wherein the set of element-dependent modules comprises a user interface screen associated with a particular managed object class, and wherein the user interface screen comprises fields for rendering data corresponding to attributes of the particular managed object class.
- 12. (Original): The method of claim 11, wherein the set of element-dependent modules further comprises a screen descriptor associated with the user interface screen, the screen descriptor specifying a mapping between the fields of the user interface screen and the attributes of the particular managed object class.
- 13. (Original): The method of claim 1, wherein the characteristics of the particular network element comprise an indication of an element type, and an indication of an element version.
- (Original): The method of claim 1, further comprising:
  receiving an indication of a second network element to be managed;

obtaining a second description of the second network element, which specifies one or more characteristics of the second network element;

accessing, based upon the second description, a second set of one or more element-dependent modules, the second set of element-dependent modules comprising functionality for invoking one or more management services provided by the second network element; and

dynamically incorporating at least a portion of the second set of elementdependent modules with the core application to derive a management mechanism capable of managing both the particular network element and the second network element.

15. (Currently Amended): A computer readable medium, comprising:

instructions for causing one or more processors to give rise to a core application, the core application comprising element-independent functionality that can be invoked to interact with any network element; and wherein the core application comprises no code specific with any network element;

instructions for causing one or more processors to receive an indication of a particular network element to be managed;

instructions for causing one or more processors to obtain a description of the particular network element, which specifies one or more characteristics of the particular network element;

instructions for causing one or more processors to access, based upon the description, a set of one or more element-dependent modules, the set of element-dependent modules comprising functionality for invoking one or more management services provided by the particular network element; and

instructions for causing one or more processors to dynamically incorporate at least a portion of the set of element-dependent modules with the core application to derive a management mechanism capable of managing the particular network element; and

instructions for causing one or more processors to manage the particular network element with the set of element-dependent modules.

- 16. (Original): The computer readable medium of claim 15, wherein the set of element-dependent modules comprises a first proxy corresponding to a first management service provided by the particular network element, the first proxy comprising functionality for converting a generic service invocation from the core application into a specific invocation of the first management service.
- 17. (Original): The computer readable medium of claim 16, wherein the first proxy implements a common interface implemented by all proxies, and wherein the core application interacts with the first proxy via the common interface.

18. (Original): The computer readable medium of claim 17, wherein the instructions for causing one or more processors to dynamically incorporate the set of element-dependent modules comprises:

instructions for causing one or more processors to instantiate the first proxy to give rise to a first proxy instance; and

instructions for causing one or more processors to incorporate the first proxy instance

with the core application.

- 19. (Original): The computer readable medium of claim 17, wherein the first proxy manages one or more managed object classes, and wherein the set of element-dependent modules further comprises the one or more managed object classes.
- 20. (Original): The computer readable medium of claim 19, wherein the instructions for causing one or more processors to dynamically incorporate the set of elementdependent modules comprises:

instructions for causing one or more processors to load the one or more managed object classes.

- (Original): The computer readable medium of claim 19, wherein each managed object class implements a second common interface implemented by all managed object classes.
- 22. (Original): The computer readable medium of claim 21, where each managed object class comprises functionality for converting a raw data type used by the first management service into a generic data type used by the core application.
- 23. (Original): The computer readable medium of claim 21, where each managed object class comprises functionality for converting a generic data type used by the core application into a raw data type used by the first management service.

- 24. (Original): The computer readable medium of claim 15, wherein the set of element-dependent modules comprises a service descriptor which provides a description of at least one particular management service provided by the particular network element, the service descriptor specifying one or more managed object classes managed by the particular management service.
- 25. (Original): The computer readable medium of claim 24, wherein the set of element-dependent modules comprises a user interface screen associated with a particular managed object class, and wherein the user interface screen comprises fields for rendering data corresponding to attributes of the particular managed object class.
- 26. (Original): The computer readable medium of claim 25, wherein the set of element-dependent modules further comprises a screen descriptor associated with the user interface screen, the screen descriptor specifying a mapping between the fields of the user interface screen and the attributes of the particular managed object class.
- 27. (Original): The computer readable medium of claim 15, wherein the characteristics of the particular network element comprise an indication of an element type, and an indication of an element version.
- 28. (Original): The computer readable medium of claim 15, further comprising:

instructions for causing one or more processors to receive an indication of a second network element to be managed;

instructions for causing one or more processors to obtain a second description of the second network element, which specifies one or more characteristics of the second network element;

instructions for causing one or more processors to access, based upon the second description, a second set of one or more element-dependent modules, the second set of element-dependent modules comprising functionality for invoking one or more management services provided by the second network element; and

instructions for causing one or more processors to dynamically incorporate at least a portion of the second set of element-dependent modules with the core application to derive a management mechanism capable of managing both the particular network element and the second network element.

 (Withdrawn): A management mechanism for managing a network, comprising: a core application; and

an element-dependent module being associated with a network element in said network, said element-dependent module being invokable by said core application.

30. (Withdrawn): The management mechanism of claim 29, wherein the element-dependent module includes:

- an element descriptor;
- a connection manager;
- a service descriptor;
- a proxie;
- a managed object class;
- a managed object descriptor;
- a user interface screen;
- a screen descriptor; and
- an operation descriptor.